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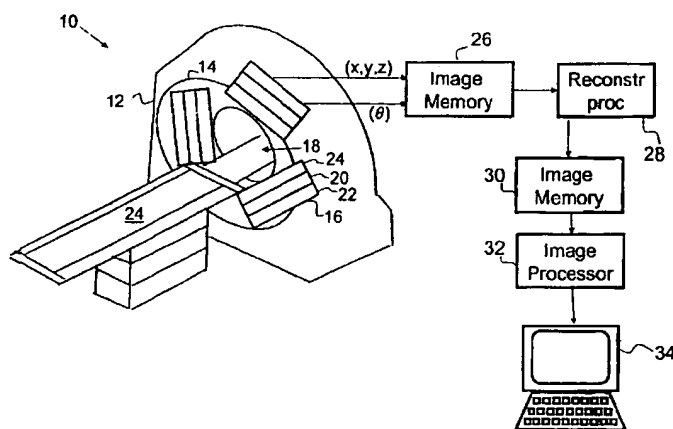
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(54) Title: **ALIGNMENT METHOD AND APPARATUS FOR PIXILATED DETECTOR**



(57) Abstract: A detector (20) for a nuclear imaging system (10) includes a plurality of sockets (44) which each support an array of individual detector elements (48). Each socket (44) includes a plurality of electrical connectors (54) and socket alignment structures (72). The sockets (44), carrying the detector elements (48), are installed onto a circuit board (40). The circuit board (40) includes a plurality of electrical conductive openings (52) which electrically connect with the electrical connectors (54) and alignment structures (74) which mate with the socket alignment structures (72) to align the sockets (44) and the individual detector elements (48) to the circuit board (40). A collimator (24) is mounted and aligned to a frame (60). The frame (60) and the circuit board (40) each include aligning structures to align the collimator (24) to the circuit board (40) and the individual detector elements (48).

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